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NASA-10800 (June 2004)  
NATIONAL AERONAUTICS NASA  
AND SPACE ADMINISTRATION Superseding NASA-10800  
(March 2003)  
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## SECTION 10800

### TOILET AND BATH ACCESSORIES 06/04

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NOTE: Delete, revise, or add to the text in this  
section to cover project requirements. Notes are  
for designer information and will not appear in the  
final project specification.  
  
This section covers toilet and bath accessories.  
  
Drawings must indicate location, mounting height,  
type, and size of accessories.  
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#### PART 1 GENERAL

##### 1.1 REFERENCES

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NOTE: The following references should not be  
manually edited except to add new references.  
References not used in the text will automatically  
be deleted from this section of the project  
specification.  
\*\*\*\*\*

The publications listed below form a part of this section to the extent  
referenced:

#### AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI A112.18.1M (1996) Plumbing Fixture Fittings

#### ASTM INTERNATIONAL (ASTM)

ASTM A 123/A 123M (2002) Standard Specification for Zinc  
(Hot-Dip Galvanized) Coatings on Iron and  
Steel Products

ASTM A 366/A 366M (1997e1) Standard Specification for Steel,  
Sheet, Carbon, Cold-Rolled, Commercial  
Quality

ASTM A 385 (2003) Standard Practice for Providing  
High-Quality Zinc Coatings (Hot-Dip)

ASTM A 525 (1993) Standard Specification for General  
Requirements for Steel Sheet, Zinc-Coated

	(Galvanized) by the Hot-Dip Process
ASTM A 525M	(1991; Rev A) Standard Specification for General Requirements for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process (Metric)
ASTM A 526/A 526M	(1990) Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Commercial Quality
ASTM A 568/A 568M	(2003) Standard Specifications for Steel, Sheet, Carbon, and High-Strength, Low-Alloy, Hot-Rolled and Cold-Rolled, General Requirements for
ASTM B 456	(2003) Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium
ASTM C 1036	(2001) Standard Specification for Flat Glass
ASTM D 2092	(1995; R 2001e1) Standard Practice for Preparation of Zinc-Coated Galvanized Steel Surfaces for Paint

#### INTERNATIONAL CODE COUNCIL (ICC)

ICC A117.1	(1998) American National Standards for Accessible and Usable Buildings and Facilities
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## 1.2 SUBMITTALS

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**NOTE: Review submittal description (SD) definitions in Section 01330, "Submittal Procedures," and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control. Include a columnar list of appropriate products and tests beneath each submittal description.**

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The following shall be submitted in accordance with Section 01330, "Submittal Procedures," in sufficient detail to show full compliance with the specification:

#### SD-03 Product Data

Manufacturer's catalog data shall be submitted for the following items:

Mirror Glass  
Mounting Devices and Fasteners  
Paper Towel Dispensers

Waste Receptacle  
Feminine Napkin Dispenser  
Feminine Napkin Disposal  
Toilet Tissue Dispenser  
Liquid-Soap Dispenser  
Shelf  
Framed Mirrors  
Medicine Cabinets  
Grab Bars  
Towel Bar  
Shower-Curtain Rod  
Robe Hook

#### SD-04 Samples

Samples shall be submitted in accordance with paragraph entitled, "Accessories," of this section.

### 1.3 DELIVERY, HANDLING, AND STORAGE

Materials shall be protected from weather, soil, and damage during delivery, storage, and construction.

Materials shall be delivered in their original packages, containers, or bundles bearing the brand name and the name of the material.

## PART 2 PRODUCTS

### 2.1 MATERIALS

Corrosion-resistant steel shall conform to AISI, Type [302] [304]. The exposed surfaces shall have a No. 4 finish, unless otherwise specified.

Brass shall be [cast] [forged], in accordance with ANSI A112.18.1M.

Steel sheet shall conform to ASTM A 366/A 366M and ASTM A 568/A 568M. Surface preparation and pretreatment shall be provided as required for the subsequent finish.

Galvanized-steel sheet shall be hot-dipped, minimum spangle, conforming to ASTM A 526/A 526M, with not less than a 1.25-ounce 35 gram zinc coating in accordance with ASTM A 525. ASTM A 525M. The surface preparation for painting shall conform to ASTM D 2092, Method A.

### 2.2 COATINGS

Chromium coating shall be nickel and chromium electrodeposited on brass, conforming to ASTM B 456, type and class as specified. Coating shall have a satin finish unless otherwise specified.

Enamel coating shall be factory applied, gloss white, baked acrylic. Coating shall be washable and suitable for the intended use.

### 2.3 MIRROR GLASS

Mirror glass shall be Type 1, Class 1, quality q1, 1/4-inch-thick 6-millimeter thick [polished plate] [float] glass with silvering, copper backing, and protective coating, in accordance with ASTM C 1036.

## 2.4 MOUNTING DEVICES AND FASTENERS

Concealed mounting devices and fasteners for accessories shall be fabricated from the same materials as the accessories or from galvanized steel, conforming to ASTM A 385 and ASTM A 123/A 123M. Exposed mounting devices and fasteners shall be finished to match the accessories. Fasteners shall be the theft-resistant type.

## 2.5 ACCESSORIES

Samples of each toilet and bath accessories to be used shall be submitted prior to installation. Approved full-size samples may be installed in the work provided they are properly identified.

### 2.5.1 Paper Towel Dispensers

[Recessed dispensers shall be sized to dispense not less than [400 C-fold] [700 multifold] paper towels with an interchangeable paper drop. Dispenser shall be fabricated to be recessed in a 4-inch 100 millimeter nominal-depth wall opening. The cabinet and door shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel of all welded construction and no mitered corners. Door shall be hung with a full-length corrosion-resistant steel piano hinge and secured with a tumbler lock.]

[Surface-mounted dispensers shall be sized to dispense not less than [300 C-fold] [400 multifold] paper towels. Dispenser shall be fabricated from not less than [0.038-inch 0.96-millimeter thick corrosion-resistant steel] [0.0359-inch 0.912-millimeter thick steel sheet with a baked enamel coating after fabrication]. Front of the cabinet shall be hinged at the bottom with a continuous corrosion-resistant steel piano hinge or two 1-1/2-inch 38-millimeter wide corrosion-resistant steel pin hinges. The lock shall be a spring bolt that will lock when the door is closed. Dispenser shall be fabricated with tight seams and joints with exposed edges rolled. Exposed surfaces shall be smooth and without blemishes. Slots shall be provided at dispenser sides to monitor for refill.]

### 2.5.2 Waste Receptacle

Recessed receptacles shall be not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel with joints continuously welded. Flange shall be fabricated from one piece seamless construction with no mitered corners. Door shall be hung with a full-length corrosion-resistant steel piano hinge and secured with a tumbler lock. The removable waste container shall have a capacity of not less than 1.2 cubic feet 34 liter.

Surface-mounted receptacles shall be rectangular in shape and fabricated from not less than [0.031-inch 0.79-millimeter thick corrosion-resistant steel] [0.0396-inch 0.912-millimeter thick steel sheet with a baked-enamel finish after fabrication]. Exposed surfaces shall be seamless construction with a continuously welded bottom pan. Receptacle shall have a capacity of not less than 2.7 cubic feet 76 liter. Heavy-duty vinyl removable liners shall be provided for refuse. Liner shall be secured to the receptacle at four points with grommets hung from corrosion-resistant steel hooks.

### 2.5.3 Feminine Napkin Dispenser

Dispensers shall be sized for not less than [20] [\_\_\_\_\_] [napkins] [tampons]. Recessed type dispensers shall be fabricated to be recessed in a wall opening not greater than 6 inches 150 millimeter in depth.

Dispenser door shall be fabricated from not less than 0.050-inch 1.3 millimeter thick corrosion-resistant steel with returned edges for rigidity. Door shall be hung with a full-length corrosion-resistant steel piano hinge and secured with a tumbler lock. Door shall be embossed with the word NAPKIN. Dispenser cabinet shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel with welded construction. Dispenser shall operate with [\_\_\_\_\_] mechanism. A separate lock shall be provided for the coin box.

#### 2.5.4 Feminine Napkin Disposal

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**NOTE: A semirecessed partition-mounted napkin disposal shall be coordinated with Section 10165, "Plastic Laminate Toilet Compartments," and Section 10160, "Metal Toilet Compartments."**  
\*\*\*\*\*

[Recessed disposals shall be fabricated for a wall opening not greater than 4 inches 100 millimeter in depth. Disposal shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel. Flange shall be fabricated from one-piece seamless construction with no mitered corners. Door shall be self-closing and equipped with a full-length corrosion-resistant steel piano hinge. Door shall be embossed with the words NAPKIN DISPOSAL and PUSH. Cabinet and receptacle shall be corrosion-resistant steel with welded construction. A recessed corrosion-resistant steel finger grip shall be provided for servicing the receptacle.]

[Partition-mounted disposal shall be semirecessed for servicing two toilet compartments. Disposal shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel. Flange shall be 1-piece seamless construction with no mitered corners. Doors shall be self-closing and equipped with a full-length corrosion-resistant steel piano hinge. Doors shall be embossed with the words NAPKIN DISPOSAL and PUSH. Cabinet and receptacle shall be corrosion-resistant steel with welded construction. A recessed corrosion-resistant steel finger grip shall be provided on one side for servicing the receptacle.]

[Surface-mounted disposal shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel. Container shall be seamless construction with a piano-hinged bottom panel for disposal service. A compartment welded to the bottom side of the container shall be provided for deodorant crystals. Disposal cover shall be equipped with a corrosion-resistant steel bar handle and a full-length piano hinge. The cover shall be weighted or equipped with a spring device so that the cover will close tightly against the container.]

#### 2.5.5 Toilet Tissue Dispenser

[Surface-mounted [single-] [double-] fold dispensers shall be fabricated to accommodate not less than 1,250 single-fold toilet tissues. Dispenser shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel. The front of the dispenser shall be hinged at the bottom and secured at the top with a lock. Dispenser shall be fabricated with tight seams and joints with exposed edges rolled. Exposed surfaces shall be smooth and without blemishes. Slots shall be provided in the face of the dispenser to indicate refill.]

[Multiroll dispensers shall be fabricated to accommodate and dispense not less than two 4-1/2- by 4-1/2-inch 114- by 114-millimeter core tissue rolls. Recessed type dispenser shall be fabricated for wall openings not greater than 4 inches 100 millimeter in depth. Dispenser shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel. Flange shall be fabricated from 1-piece seamless construction. Door shall be bottom hung with a continuous piano hinge and secured with a tumbler lock. A slot shall be provided in the face of the door to monitor for refill. The spare roll shall be accessible to the patron after the first roll is empty by pushing a release bar.]

[Roll holders shall be fabricated to accommodate core tissue rolls up to 5 inches 125 millimeter in diameter. Holder components shall be fabricated from heavy-gage forged brass with a chromium finish. The paper roller shall contain a heavy-duty internal spring for holding the paper securely in the holder. Flanges on surface mounted holders shall be secured to the supporting surface with concealed fasteners.]

#### 2.5.6 Liquid-Soap Dispenser

Liquid-soap dispenser shall be chrome-plated brass with not less than a 3-1/2-inch 89 millimeter spout-to-shank dimension and not less than a 12-ounce 355 milliliter plastic soap container refillable by removing the push button cap or head assembly.

#### 2.5.7 Shelf

Shelf shall be fabricated from not less than 0.050-inch 1.3-millimeter thick corrosion-resistant steel, full length without seams, with not less than a 1/2-inch 13-millimeter edge face and exposed edges rolled. Mounting brackets shall be fabricated from not less than 0.063-inch 1.6-millimeter thick corrosion-resistant steel welded to the bottom of the shelf. Provide two brackets for the first 24 inches 600 millimeter of shelf and one additional bracket for each additional 12 inches 305 millimeter of length.

#### 2.5.8 Mirrors

[Framed Mirrors shall be fabricated to the size indicated. Mirror frame shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel with corners mitered, welded, and ground smooth and a face width of not less than 5/8 inch 15 millimeter. Backing sheet shall be fabricated from not less than 0.0396-inch 1.0-millimeter thick galvanized steel secured to the frame with concealed screws. Edges and back of the mirror glass shall be protected with continuous wood fill strips and moisture-proof shock-absorbing back padding. Concealed galvanized-steel wall hanger of the size required for the mirror size shall be provided. Mirror shall be hung and locked in place with not less than two vandal-resistant locking screws per mirror.]

[End shelf shall be fabricated from not less than 0.031-inch 0.79-millimeter corrosion-resistant steel not less than 5 inches 127 millimeter wide with a 3/4-inch 19 millimeter return edge. Shelf shall be secured to the mirror frame and reinforced with not less than 0.063-inch 1.6-millimeter thick corrosion-resistant steel concealed brackets.]

[Frameless mirrors shall be fabricated to the sizes indicated. Mirrors shall be fabricated of the specified mirror glass, and have smooth, polished edges. Mirrors shall be secured at the bottom in continuous full-width channel-type retaining strips mounted against the wall on top of

the vanity back-splash. Mounting clips shall secure the mirror to the wall along the top and at both sides. Mounting clips and channels shall be [stainless steel] [anodized aluminum] [nickel finish steel] as approved.]

#### 2.5.9 Medicine Cabinets

Medicine cabinets shall be recess-mounted with a cabinet size not less than 13 wide by 26 high by 3 inches deep 330 wide by 660 high by 76 millimeter deep. Cabinet shall be fabricated from not less than 0.0299-inch 0.759-millimeter thick steel sheet of drawn, one-piece construction, with corners coved and an enamel coating. Exposed edges of cabinet shall be rolled. Cabinet shall be equipped with razor blade slots and not less than three glass shelves. Shelf edges shall be ground with corners eased. Shelf supports shall be formed with cabinet side walls or adjustable snap-in devices fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel.

Cabinet door shall be a framed mirror not less than 16 inches 406 millimeter wide by 26 inches 660 millimeter high. Mirror glass shall be as specified. Mirror frame shall be fabricated from not less than 0.031-inch 0.79-millimeter thick corrosion-resistant steel with corners mitered, welded, and ground smooth and a face width of not less than 5/8 inch 16 millimeter. Backing sheet shall be fabricated from not less than 0.0359-inch 0.912-millimeter thick steel sheet with an enamel coating, and be secured to the frame with concealed screws. The edges and back of the mirror glass shall be protected with continuous wood filler strips and moisture-proof shock-absorbing back padding. Door shall be hung with a continuous corrosion-resistant steel piano hinge and secured with a spring or magnetic latch and a spring doorstop.

#### 2.5.10 Grab Bars

Bars shall be fabricated from not less than 0.049-inch thick, 1-1/4 inch 1.24 millimeter thick, 35 millimeter outside diameter seamless corrosion-resistant steel tubing. Wall flanges shall be fabricated for a concealed installation from not less than 0.094-inch 2.39-millimeter thick corrosion-resistant steel not less than 3 inches 79 millimeter in diameter.

Flanges shall be fully welded to the grab bar. A concealed mounting plate shall be fabricated from corrosion-resistant or galvanized steel. Secure flanges to the mounting plate with not less than four corrosion-resistant steel vandal-resistant setscrews. Exposed surfaces shall have a finish as specified unless the finish is indicated as nonslip. Nonslip finish shall have a peened or light knurled finish.

#### 2.5.11 Towel Bar

Bar shall be fabricated from not less than 0.049-inch-thick, 3/4-inch 1.24-millimeter-thick, 20 millimeter outside diameter, seamless corrosion-resistant steel tubing. Support posts shall be fabricated for a concealed installation from satin-finish chromium-plated brass or corrosion-resistant steel. Concealed mounting brackets shall be fabricated from the same material as the support posts. Support posts shall be secured to the mounting brackets with a locking setscrew.

#### 2.5.12 Shower-Curtain Rod

Rod shall be fabricated from not less than 0.035-inch-thick, 1-inch 0.89-millimeter-thick, 25 millimeter outside diameter, seamless corrosion-resistant steel tubing. Support flanges shall be fabricated from

not less than 0.125-inch 3.17 millimeter thick corrosion-resistant steel  
not less than 3 inches 80 millimeter in diameter.

#### 2.5.13 Robe Hook

Hook shall be the double type fabricated from satin-finish chromium-plated brass. The projection from the back of the flange to the end of the hook shall be not less than 2 inches 50 millimeter. The concealed mounting bracket shall be fabricated from solid brass. Hook shall be secured to the mounting bracket with a locking setscrew.

### PART 3 EXECUTION

#### 3.1 GENERAL

Field measurements shall be taken prior to the preparation of drawings and fabrication to ensure proper fits.

Accessories shall be secured to the supporting substrates with anchors of the types indicated by the following substrate construction.

\*\*\*\*\*  
**NOTE: The following anchors are for accessories  
except grab bars.**  
\*\*\*\*\*

#### 3.2 PLASTER

Accessories shall be secured with [toggle bolts] [wood screws] passing through the plaster to a wood backing. [Toggle bolts shall be not less than No. 10-24 screws of the required lengths for the finish thickness.] [Wood screws shall be not less than No. 8 of the length required for the finish thickness and to provide not less than a 3/4-inch 19 millimeter penetration into the wood.]

#### 3.3 TILE CEMENTED ON PLASTER OR GYPSUM-BOARD WALL

Accessories shall be secured with toggle bolts using not less than No. 10-24 screws of the length required for the finish thickness.

#### 3.4 GYPSUM BOARD

Accessories shall be secured with toggle bolts or expansion sleeve screws. Toggle bolts shall be not less than No. 10-24 screws of the length required for the finish thickness. Expansion-sleeve screws shall be not less than No. 6-32 screws or No. 10-24 screws of the lengths required for the finish thickness.

#### 3.5 SOLID MASONRY, CONCRETE, OR TILE SET IN MORTAR

Accessories shall be secured with lead expansion shields or cast-in integral anchors. Lead expansion shields shall be not less than No. 8 wood screws with a shield length of not less than 1 inch 25 millimeter. Integral anchors shall be deformed bars not less than 1-1/2 inches 38 millimeter in length cast into a predrilled hole with quickset mortar or plaster of paris.

### 3.6 METAL PARTITIONS

Accessories shall be secured with T-nuts and through-bolts not less than No. 10-24 of the lengths required for the partition thickness.

\*\*\*\*\*  
**NOTE: The following anchorage devices shall be for  
grab bars installed on various types of substrate as  
required.**  
\*\*\*\*\*

### 3.7 GRAB-BAR ANCHORS

Through-bolt anchors shall be used for solid masonry or concrete walls where the backplate is concealed or covered with a subsequent finish. An adhesive-applied anchor plate shall be used only when a through-bolt plate would be exposed. An embedded plate anchor shall be used for hollow partitions and solid gypsum partitions.

Through-bolt anchors shall be designed and installed to have a withdrawal strength of not less than 300 pounds 1335 newton per anchor. Front and back plates shall be fabricated from not less than 0.187-inch 4.75 millimeter thick steel with the surface area required for the design strength. Through bolts shall be not less than 0.250-inch 6 millimeter diameter threaded rod with a hexnut and lockwasher. The length of the rod shall be determined by the wall thickness.

Adhesive-applied anchor plate shall be fabricated from not less than 0.0396-inch 1.00-millimeter thick perforated plate adhesive-applied to the supporting substrate. Adhesive shall be a thermoset epoxy-based resin which shall develop not less than 300 pounds 1335 newtonshear strength per bar anchor. Grab-bar back plate shall be secured to the anchor plate with not less than two No. 10-24 screws of the length required for the thickness.

Embedded plate anchors shall be fabricated from not less than 0.125-inch 3.17-millimeter thick plates with the width and length of the bar as indicated. Plate shall be U-clamped to the partition studs or channels. Embedded plates shall be secured to the studs or channels on each side of the grab-bar support. Bar back plate shall be secured to the anchor plate with not less than two No. 10-24 screws of the length required for the thickness.

### 3.8 HANDICAP ACCESSORIES

Toilet and bath accessories designated for handicap requirements shall be installed in accordance with ICC A117.1.

### 3.9 CLEANING

Surfaces of the work, and adjacent surfaces soiled as a result of the work, shall be cleaned as recommended by the manufacturer.

-- End of Section --